

We claim:

1. An aerosol foam product for hair treatment, comprising
 - a pressure-resistant container;
 - a foamable composition containing at least one dialkyldiallyl ammonium chloride/acrylamide copolymer; at least one other copolymer, said at least one other copolymer comprising at least one first monomer and at least one second monomer, said at least one first monomer consisting of an alkyl acrylate and/or an alkyl methacrylate and said at least one second monomer consisting of acrylic acid and/or methacrylic acid; at least one base for at least partial or total neutralization of the at least one other copolymer and a solvent system; and
 - at least one propellant, said at least one propellant being filled together with said foamable composition in said pressure-resistant container.
2. The aerosol foam product as defined in claim 1, wherein said at least one dialkyldiallyl ammonium chloride/acrylamide copolymer consists of a dimethyldiallyl ammonium chloride/acrylamide copolymer.
3. The aerosol foam product as defined in claim 1, wherein said at least one dialkyldiallyl ammonium chloride/acrylamide copolymer has a cationic charge density from 200 to 250, expressed as molecular weight per unit cationic charge.

4. The aerosol foam product as defined in claim 1, wherein said at least one other copolymer is an alkylacrylate/methacrylic acid copolymer and alkyl groups of said alkylacrylate/methacrylic acid copolymer have from 1 to 4 carbon atoms.

5. The aerosol foam product as defined in claim 1, wherein said at least one other copolymer has a negative charge, said at least one dialkyldiallyl ammonium chloride/acrylamide copolymer has a positive charge and a ratio of said negative charge to said positive charge is in a range of 1:1 to 10:1.

6. The aerosol foam product as defined in claim 1, wherein foam formed from said foamable composition has strand drawing or forming properties.

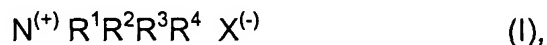
7. The aerosol foam product as defined in claim 1, wherein said at least one base is an aminoalkylalcohol.

8. The aerosol foam product as defined in claim 1, wherein said foamable composition includes at least one surfactant.

9. The aerosol foam product as defined in claim 8, wherein said at least one surfactant is at least one of a nonionic surfactant and a cationic surfactant, and wherein said nonionic surfactant is selected from the group consisting of fatty acid glyceride ethoxylates, fatty alcohol ethoxylates, fatty amine ethoxylates, fatty acid alkanol amide ethoxylates, fatty acid ester ethoxylates, ethoxylated

fatty acid sugar esters, ethoxylated sorbitan fatty acid esters, non-ethoxylated fatty acid sugar esters and alkylpolyglycosides; and

wherein said cationic surfactant is of formula (I):



wherein R^1 , R^2 , R^3 and R^4 , independently of each other, each represent an alkyl group, an aryl group, an alkoxy group, a polyoxyalkylene group, an alkylamido group, a hydroxyalkyl group or an alkyaryl group, each group with 1 to 22 carbon atoms, and $X^{(-)}$ represents an anion.

10. The aerosol foam product as defined in claim 1, wherein said at least one propellant is propane, i-butane, n-butane or dimethyl ether or a mixture thereof.

11. The aerosol foam product as defined in claim 8, containing from 0.1 to 10 percent by weight of said at least one dialkyldiallyl ammonium chloride/acrylamide copolymer, from 0.1 to 10 percent by weight of said at least one other copolymer, an amount of said at least one base sufficient to neutralize from 50 to 100 % of said at least one other copolymer, from 1 to 20 percent by weight of said at least one propellant, from 50 to 98 percent by weight of said solvent system and from 0 to 15 percent by weight of said at least one surfactant.

12. The aerosol foam product as defined in claim 1, wherein said composition comprises at least one nonionic film-forming polymer.

13. The aerosol foam product as defined in claim 12, wherein said at least one nonionic film-forming polymer is selected from the group consisting of polyvinyl pyrrolidone and copolymers of vinyl pyrrolidone and ethylenically unsaturated nonionic comonomers.

14. The aerosol foam product as defined in claim 1, wherein said composition contains at least one hair-dyeing substance.

15. A aerosol foam product for treating hair, said product comprising a composition for foam production and said composition comprising

from 0.1 to 5 percent by weight of dimethyldiallyl ammonium chloride/acrylamide copolymer;

from 0.1 to 5 percent by weight of ethylacrylate/methacrylic acid copolymer;

a base in an amount sufficient for neutralizing from 50 to 100 percent of said ethylacrylate/methacrylic acid copolymer;

from 50 to 98 percent by weight of a solvent, said solvent containing water, C₂-C₃ alcohol or mixtures thereof; and

from 1 to 20 percent by weight of a C₃- to C₄-hydrocarbon as propellant; wherein the ethylacrylate/methacrylic acid copolymer and the dimethyldiallyl ammonium chloride/acrylamide copolymer are present in a weight ratio of 1:1 to less than 10:1.

16. An aerosol foam product for treating hair, said product comprising a pressure-resistant container and a composition for foam production filled in the pressure-resistant container, and wherein said composition contains at least one hair-fixing polymer, at least one propellant and at least one solvent system, and wherein foam formed from said composition has strand drawing or forming properties after being dispensed from said pressure-resistant container.

17. A method of treating hair or of making curled or waved hair from said hair, said method comprising the steps of:

a) providing a foamable composition together with an aerosol propellant in a pressure-resistant container, said foamable composition comprising at least one dialkyldiallyl ammonium chloride/acrylamide copolymer; at least one other copolymer, said at least one other copolymer comprising at least one first monomer and at least one second monomer, said at least one first monomer consisting of an alkyl acrylate and/or an alkyl methacrylate and said at least one second monomer consisting of acrylic acid and/or methacrylic acid; at least one base for at least partial or total neutralization of the at least one other copolymer and a solvent system;

b) dispensing foam from said pressure-resistant container; and

c) applying said foam to said hair.